

ART 34 AMDT

EPO - DG 1

06. 07. 2004

CLAIMS

(57)

1. Fischer-Tropsch process for the conversion of carbon monoxide and hydrogen to C_5^+ hydrocarbon mixtures in which process use is made of Fischer-Tropsch catalyst particles and zeolite Y-containing fluid catalytic cracking catalyst particles.
2. Process according to claim 1 wherein a reaction mixture of carbon monoxide and hydrogen is contacted with the Fischer-Tropsch catalyst particles and the fluid catalytic cracking catalyst particles.
3. Process according to claim 2 wherein the Fischer-Tropsch catalyst particles and the fluid catalytic cracking catalyst particles are dosed individually to the reaction mixture.
4. Process according to claim 3 wherein the Fischer-Tropsch catalyst particles and the fluid catalytic cracking catalyst particles are dosed at different rates.
5. Process according to claim 2, wherein the Fischer-Tropsch catalyst particles and the fluid catalytic cracking catalyst particles are used in the form of shaped bodies in which both particles are embedded.
6. Process according to claim 1 wherein the Fischer-Tropsch catalyst particles are used in the second step of the Fischer-Tropsch process and the fluid catalytic cracking catalyst particles are used in the third step of the Fischer-Tropsch process.
7. Process according to any one of the preceding claims wherein the Fischer-Tropsch catalyst particles comprise iron.

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8. Process according to any one of the preceding claims wherein the Fischer-Tropsch catalyst particles comprise cobalt.
9. Process according to any one of the preceding claims wherein the fluid catalytic cracking catalyst is a spent or equilibrium fluid catalytic cracking catalyst.
10. Process according to any one of the preceding claims wherein a metal compound has been deposited on the fluid catalytic cracking catalyst.